## IN THE CLAIMS

- 1. (currently amended) An optical connection module for attaching an optical component to a substrate and aligning said optical component with a first laser, comprising:
  - a substrate;
- a fiber submount that is attached to said substrate and that includes a thermally insulating material having a thickness greater than 20 micrometers;

an optical component that is soldered to said fiber submount using heat from a second laser;

- a fiber bonding pad located between said thermally insulating material and said optical component;
  - a laser submount attached to said substrate; and
- a first laser that is attached to said laser submount, whereby said first laser is substantially aligned with said optical component.
- 2. (original) The optical connection module of claim 1 wherein said optical connection module is a fiber-coupled laser module and said optical component is an optical fiber.
- 3. Cancelled
- 4. (currently amended) The optical connection module of claim 3 1, wherein said fiber bonding pad and said thermally insulating material conduct heat locally during soldering to uniformly melt said solder.

- 5. (currently amended) The optical connection module of claim 1, 3 wherein said thermally insulating material and said fiber bonding pad limit heat transfer to said substrate during soldering.
- 6. (currently amended) The optical connection module of claim 1, 3 wherein said fiber bonding pad performs at least one of providing a solder dam, absorbing laser light, laterally conducting heat, and improving the strength of an attachment between said optical component and said substrate.
- 7. (original) The optical connection module of claim 6 wherein said fiber bonding pad includes:
  - a first layer; and
- a second layer having one side connected to said first layer.
- 8. (previously amended) The optical connection module of claim 7 wherein said fiber bonding pad further includes a third layer having one side adjacent to said second layer.
- 9. (previously amended) The optical connection module of claim 7, wherein said first layer comprises Au.
- 10. (previously amended) The optical connection module of claim 7, wherein said second layer comprises a material that absorbs laser light.

- 11. (previously amended) The optical connection module of claim 7, wherein said second layer comprises a solder dam.
- 12. (previously amended) The optical connection module of claim 7 wherein said second layer comprises a material selected from the group consisting of Ni, Cr, Ti and CrO.
- 13. (previously amended) The optical connection module of claim 8, wherein said third layer comprises Ti.
- 14. (original) The optical connection module of claim 8 further comprising a fourth layer located between said second and third layers.
- 15. (previously amended) The optical connection module of claim 14 wherein said fourth layer comprises Pt.
- 16. (original) The optical connection module of claim 1 wherein said thermally insulating material is selected from the group of glass and ceramic.
- 17. (original) The optical connection module of claim 1 wherein said solder is selected from the group of AuSn, PbSn and AuGe.

- 18. (previously amended) The optical connection module of claim 1, wherein said laser submount is comprised of a material selected from the group consisting of AlN, AlNi, SiC, BeO, TcBN, diamond and Si.
- 19. (original) The optical connection module of claim 18 wherein said optical component is an active optical component.
- 20. (previously amended) The optical connection module of claim 18, wherein said optical component is a passive optical component.
- 21. (original) The optical connection module of claim 1 wherein said optical component is selected from the group of optical fiber, mirrors, lenses, detectors, microelectromechanical (MEMS) devices, and isolators.
- 22. (previously amended) An optical connection module for attaching an optical component to a substrate and for aligning said optical component to a first laser, comprising:

## a substrate;

a fiber submount attached to said substrate and including a fiber bonding pad and a thermally insulating material that has a thickness greater than 20 micrometers and wherein said fiber submount conducts heat locally during soldering to uniformly melt said solder and insulates heat transfer to said substrate;

an optical component that is soldered to said fiber bonding pad with heat that is produced by a second laser;

- a laser submount that is attached to said substrate; and
- a first laser that is attached to said laser submount, whereby the first laser is substantially aligned with said optical component.
- 23. (original) The optical connection module of claim 22 wherein said fiber bonding pad performs at least one of providing a solder dam, absorbing laser light, laterally conducting heat, and improving the strength an attachment between said optical component and said substrate.
- 24. (original) The optical connection module of claim 23 wherein said fiber bonding pad includes:
  - a first layer; and
- a second layer having one side connected to said first layer.
- 25. (original) The optical connection module of claim 24 wherein said fiber bonding pad includes a third layer having one side adjacent to said second layer.
- 26. (previously amended) The optical connection module of claim 24 wherein said first layer comprises Au.
- 27. (previously amended) The optical connection module of claim 24 wherein said second layer comprises a material that absorbs laser light.

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28. (previously amended) The optical connection module of claim 24, wherein said second layer comprises a solder dam.

- 29. (previously amended) The optical connection module of claim 24, wherein said second layer comprises a material selected from the group consisting of Ní, Cr, Ti and CrO.
- 30. (previously amended) The optical connection module of claim 25 wherein said third layer comprises Ti.
- 31. (original) The optical connection module of claim 25 further comprising a fourth layer located between said second and third layers.
- 32. (previously amended) The optical connection module of claim 31 wherein said fourth layer comprises Pt.
- 33. (original) The optical connection module of claim 22 wherein said solder is selected from the group of AuSn, PbSn, and AuGe.
- 34. (previously amended) The optical connection module of claim 22 wherein said laser submount comprises a material selected from the group consisting of AlN, AlNi. SiC, TcBN, BeO, diamond and Si.

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passive optical components.

35. (original) The optical connection module of claim 22 wherein said optical component is at least one of active and

- 36. (original) The optical connection module of claim 22 wherein said optical component is selected from the group of optical fiber, mirrors, lenses, detectors, microelectromechanical devices, and isolators.
- 37. (previously amended) An integrated optical connection module for attaching an optical component to a substrate and for aligning said optical component to a first laser, comprising:
  - a substrate;
- a thermally insulating material formed integrally in said substrate and having a thickness greater than 20 micrometers;
- a fiber bonding pad including at least one metallic layer attached to said thermally insulating material;
- an optical component that is soldered to said fiber bonding pad; and
- a first laser located on said substrate, whereby the first laser is substantially aligned with said optical component.
- 38. (original) The integrated optical connection module of claim 37 wherein said fiber bonding pad conducts heat locally during soldering to uniformly heat said solder using a second

laser and insulates heat transfer from said solder to said substrate.

- 39. (original) The integrated optical connection module of claim 37 wherein said fiber bonding pad performs at least one of providing a solder dam, absorbing laser light, laterally conducting heat, and improving the strength an attachment between said optical component and said substrate.
- 40. (original) The integrated optical connection module of claim 37 wherein said fiber bonding pad includes:
  - a first layer; and
- a second layer having one side connected to said first layer.
- 41. (original) The integrated optical connection module of claim 40 wherein said fiber bonding pad includes a third layer having one side adjacent to said second layer.
- 42. (previously amended) The integrated optical connection module of claim 40, wherein said first layer comprises Au.
- 43. (previously amended) The integrated optical connection module of claim 40, wherein said second layer comprises a material that absorbs laser light.

- 44. (previously amended) The integrated optical connection module of claim 40, wherein said second layer comprises a solder dam.
- 45. (previously amended) The integrated optical connection module of claim 40, wherein said second layer comprises selected from the group consisting of Ni, Cr, Ti and CrO.
- 46. (previously amended) The integrated optical connection module of claim 41, wherein said third layer comprises Ti.
- 47. (original) The integrated optical connection module of claim 41 further comprising a fourth layer located between said second and third layers.
- 48. (previously amended) The integrated optical connection module of claim 47, wherein said fourth layer comprises Pt.
- 49. (original) The integrated optical connection module of claim 37 wherein said thermally insulating material is selected from the group of glass and ceramic.
- 50. (original) The integrated optical connection module of claim 37 wherein said solder is selected from the group of AuSn, PbSn, and AuGe.

- 51. (original) The integrated optical connection module of claim 37 wherein said thermally insulating material is attached to said substrate using anodic bonding.
- 52. (original) The integrated optical connection module of claim 51 wherein at least one lateral gap that is formed between said substrate and said thermally insulating material is filled with glass frit.
- 53. (original) The integrated optical connection module of claim 52 wherein said glass frit is annealed and polished.
- 54. (original) The integrated optical connection module of claim 37 wherein said thermally insulating material is formed using flame hydrolysis.

Claims 55-67 cancelled.

68. (previously added) The integrated optical connection module of claim 37, wherein the thermally insulating material is formed integrally in said substrate by patterning and etching a first region of the substrate.